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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,581	04/20/2001	Fred Allegrezza	03224.0001U1	1423
23859 7590 12/28/2007 NEEDLE & ROSENBERG, P.C. SUITE 1000 999 PEACHTREE STREET ATLANTA, GA 30309-3915			EXAMINER PARRY, CHRISTOPHER L	
			ART UNIT 2623	PAPER NUMBER
			MAIL DATE 12/28/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

### Application No.

09/839,581

### Applicant(s)

ALLEGREZZA, FRED

### Examiner

Chris Parry

### Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-7,9-14,16-19,21-24,53 and 54 is/are pending in the application.
- 4a) Of the above claim(s) 53 and 54 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-7,9-14,16-19 and 21-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 6/13/2007.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 17, 2007 has been entered.

### ***Information Disclosure Statement***

2. The information disclosure statement (IDS) submitted on June 13, 2007 was filed after the mailing date of the final office action on June 13, 2007. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 1 and 13 have been considered but are moot in view of the new ground(s) of rejection.

***Election/Restrictions***

4. Newly submitted claims 53-54 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: Claims 53-54 are directed towards the CPU is designated to store the video files on the storage system creates a directory based on the data to be stored and stores directory information on disk drives (Page 4, lines 20-22). The claims currently presented are directed towards CPUs having access to the directory to allow access to the data stored on the disk drives (Page 5, lines 4-6).

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 53-54 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-2, 4-7, 9-14, 16-19, and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rege (USPN 6,128,467) [cited by applicant on July 16, 2007] in view of Belknap et al. "Belknap" (USPN 5,586,264).

Regarding Claim 1, Rege discloses a system (200 – figure 2) for retrieving data distributed across a plurality of storage devices (800 – figure 2) (Col. 3, lines 18-27), the system comprising: a plurality of processors (300 – figure 2), wherein upon receipt of a request for retrieving data, a processor is designated for handling the request (Col. 3, lines 28-63, Col. 5, lines 64-67).

Rege further discloses a switch (400 – figure 2) arranged between the processors (300 – figure 2) and the storage devices (800 – figure 2), wherein the switch independently routes a request for retrieving data from the designated processor directly to the storage devices containing the requested data and independently routes responses from the storage devices directly to the designated processor and wherein the data comprises video stream data (figures 4 & 5; Col. 3, lines 19-35; Col. 3, line 64 to Col. 4, line 39; Col. 4, lines 56-67).

Rege teaches servers 300 generate data request packets that are sent to disks 800 when a request from a customer is received. The request includes a header, disk address field, size field, server memory address field, and error correction field. The disk address is the logical address of the portion of the selected multimedia to be transferred to the server 300 from disk 800 (Col. 6, lines 6-46). However, Rege is silent on disclosing wherein the switch independently routes a request for retrieving data from the designated processor directly to the storage devices containing the requested data

based on directory information obtained by the processor, and independently routes responses from the storage devices directly to the designated processor based on the directory information obtained by the processor, and wherein the data comprises video stream data.

In an analogous art, Belknap discloses a system (10 – figure 1) for retrieving data distributed across a plurality of storage devices (16 – figure 2) (Col. 6, lines 22-52), the system comprising: a switch (12 – figure 1), wherein the switch routes a request for retrieving data from the designated processor directly to the storage devices containing the requested data based on directory information (i.e., RAID mapping for data stored on disks 45) obtained by the processor, and routes responses from the storage devices directly to the designated processor based on the directory information obtained by the processor (Col. 7, lines 4-7 & lines 53-67; Col. 8, lines 41-53; Col. 9, lines 8-31).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rege to include retrieving data from the designated processor directly to the storage devices containing the requested data based on directory information obtained by the processor, and independently routes responses from the storage devices directly to the designated processor based on the directory information obtained by the processor as taught by Belknap for the benefit of providing an improved data retrieval system that can provide video data to customers in a more immediate fashion.

As for Claims 2 and 14, Rege and Belknap disclose, in particular Rege teaches a resource manager (600 – figure 2) for designating a processor (300 – figure 2) to handle a request, based on the load on each processor (Col. 4, lines 41-67; Col. 5, lines 59-63; Col. 6, lines 39-46).

As for Claims 4 and 16, Rege and Belknap disclose, in particular Belknap teaches wherein the processor obtains the directory information (i.e., RAID mapping for data stored on disks 45) from the storage devices (Col. 7, lines 64-67; Col. 9, lines 8-31).

As for Claims 5 and 17, Rege and Belknap disclose, in particular Rege teaches the system of claim 1, further comprising at least one high speed network (i.e., LAN 210 – figure 2) connected to the storage devices and arranged between the switch and the storage devices (Col. 3, lines 18-37).

As for Claims 6 and 18, Rege and Belknap disclose, in particular Rege teaches wherein the switch accommodates a plurality of high speed networks (i.e., LAN 210 – figure 2) and connected storage devices (Col. 3, lines 28-40).

As for Claims 7 and 19, Rege and Belknap disclose, in particular Rege teaches wherein the high speed network is an Ethernet network (Col. 4, lines 56-67).

As for Claims 9 and 21, Rege and Belknap disclose, in particular Rege teaches wherein the storage devices are disk drives (Col. 5, lines 19-44).

As for Claims 10 and 22, Rege and Belknap disclose, in particular Rege teaches wherein the data is stored in a Redundant Array of Inexpensive Disks (RAID) format among the disk drives (Col. 5, lines 36-63).

As for Claims 11 and 23, Rege and Belknap disclose, in particular Belknap teaches the system of claim 1, further comprising a high speed network for delivering the retrieved data from the designated processor to a client device (Col. 12, lines 50-53).

As for Claims 12 and 24, Rege and Belknap disclose, in particular Belknap teaches wherein the high speed network is an Asynchronous Transfer Mode (ATM) network (Col. 12, lines 50-53).

Regarding Claim 13, Rege discloses a method for retrieving data distributed across a plurality of storage devices (Col. 3, lines 29-42), the method comprising the steps of: receiving a request for retrieving data (Col. 3, lines 29-31), wherein the data comprises video stream data (Col. 3, lines 18-33).

Rege further discloses designating a processor (300 – figure 2) for handling the request (Col. 4, lines 41-67; Col. 5, lines 59-63; Col. 6, lines 39-46).

Rege teaches returning responses from the storage devices (800 - figure 2) directly to the designated processor via the switch (400 - figure 2) (Col. 3, lines 33-35), wherein the switch independently route the request for retrieving data and the responses between the storage devices and the processor (figures 4 & 5; Col. 3, lines 19-35; Col. 3, line 64 to Col. 4, line 39; Col. 4, lines 56-67).

Rege is silent on disclosing forwarding the request directly from the designated processor to the storage devices containing the data via a switch and disclosing wherein the switch uses directory information obtained by the processor to route requests.

In an analogous art, Belknap discloses a method for retrieving data distributed across a plurality of storage devices (Col. 17, lines 28-65), the method comprising the steps of: receiving a request for retrieving data, wherein the data comprises video stream data (Col. 8, lines 32-35).

Belknap discloses forwarding the request directly from the designated processor (14 – figure 1 & 1D) to the storage devices (16 – figure 1 & 1C) containing the data via a switch (12 – figure 1 & 1A) (Col. 8, lines 40-52; Col. 9, lines 8-19; Col. 12, lines 57-62)

Belknap teaches returning responses from the storage devices directly to the designated processor via the switch (Col. 12, lines 57-59), wherein the switch uses directory information (i.e., RAID mapping for data stored on disks 45) obtained by the processor to route the request for retrieving data and the responses between the storage devices and the processor (Col. 7, lines 4-7 & lines 53-67; Col. 8, lines 41-53; Col. 9, lines 8-31). Therefore, it would have been obvious to one of ordinary skill in the

art at the time the invention was made to modify the system of Rege to include retrieving data from the designated processor directly to the storage devices containing the requested data based on directory information obtained by the processor, and independently routes responses from the storage devices directly to the designated processor based on the directory information obtained by the processor as taught by Belknap for the benefit of providing an improved data retrieval system that can provide video data to customers in a more immediate fashion.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shaw et al. (USPN 5,870,533) – Discloses a directory that stores data indicating video titles, which video titles are completely stored on the disk array and which video titles are stored on the tape library.

Aoki (USPN 5,890,203) – Discloses a data transfer device to read the data distributed and stored to a plurality of disk devices.

Mizutani (USPN 6,115,740) - Discloses a video server system that dynamically allocates contents for efficient services.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris Parry whose telephone number is (571) 272-8328. The examiner can normally be reached on Monday through Friday, 8:00 AM EST to 4:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chris Parry  
Examiner  
Art Unit 2623

/CPI/

  
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